

From: [Vaouli, Elena \(CDC epa.gov\)](#)
To: [Pomales, Ana E. \(ATSDR/DCHI/EB\)](#); [Cibulas, William \(ATSDR/OA/OD\)](#); [Bob Helverson](#); [Tierney, Bruce \(ATSDR/DCHI/SSB\)](#); [Ekechi, Chinyere \(CDC/ONDIEH/NCEH\)](#); [Poulet, Chris \(ATSDR/DCHI/WB\)](#); [Strausbaugh, Dan \(ATSDR/DCHI/WB\)](#); [Dorian, David \(ATSDR/DCHI/WB\)](#); [Burgin, Deborah \(ATSDR/DCHI/OD\)](#); [Vaouli, Elena \(ATSDR/DCHI/EB\)](#); [Irvin-Barnwell, Elizabeth \(ATSDR/DTHHS/EEB\)](#); [Pettigrew, George \(ATSDR/DCHI/CB\)](#); [Pohl, Hana R. \(ATSDR/DTHHS/ETB\)](#); [Flowers, Helen \(Len\) \(CDC/ONDIEH/NCEH\)](#); [Lyke, Jennifer L. \(ATSDR/DCHI/CB\)](#); [Dyken, Jill J. \(ATSDR/DCHI/EB\)](#); [Scruton, Karen M. \(ATSDR/DCHI/SSB\)](#); [Markiewicz, Karl \(ATSDR/DCHI/EB\)](#); [Graziano, Leah T. \(ATSDR/DCHI/EB\)](#); [Werner, Lora S. \(ATSDR/DCHI/EB\)](#); [Rosales-Guevara, Lourdes \(ATSDR/DCHI/SSB\)](#); [Johnson, Mark \(ATSDR/DCHI/CB\)](#); [Watters, Michelle T. \(ATSDR/DCHI/OD\)](#); [Mumtaz, Moiz \(ATSDR/DTHHS/OD\)](#); [Young, Patrick \(ATSDR/DCHI/CB\)](#); [Kowalski, Peter J. \(ATSDR/DCHI/SSB\)](#); [Gillig, Richard \(Rick\) \(ATSDR/DCHI/CB\)](#); [Sudweeks, Scott D. \(ATSDR/DCHI/WB\)](#); [Williams-Fleetwood, Sharon O. \(ATSDR/DCHI/EB\)](#); [Doan, Stephanie \(ATSDR/DCHI/OD\)](#); [Jones, Steve \(ATSDR/DCHI/OD\)](#); [Moore, Susan \(ATSDR/DCHI/SSB\)](#); [Rodenbeck, Sven \(ATSDR/DCHI/OD\)](#); [Forrester, Tina \(ATSDR/DCHI/OD\)](#); [Uveges, Pam S. \(ATSDR/DCHI/EB\)](#); [Holly, Myles N. \(ATSDR/DCHI/OD\)](#); [Markiewicz, Karl \(EPA\) \(CDC epa.gov\)](#); [Lyke, Jennifer L. \(EPA\) \(CDC epa.gov\)](#); [Watters, Michelle \(EPA\) \(CDC epa.gov\)](#); [Strausbaugh, Dan C. \(EPA\) \(CDC epa.gov\)](#); [Jones, Steve L. \(EPA\) \(CDC epa.gov\)](#); [Werner, Lora S. \(CDC epa.gov\)](#); [Burgin, Deborah \(CDC epa.gov\)](#); [Escobar, Leah T. \(EPA\) \(CDC epa.gov\)](#); [Dorian, David \(CDC epa.gov\)](#); [Johnson, Mark \(EPA\) \(CDC epa.gov\)](#)
Subject: FW: Upcoming webinar on Hydraulic Fracturing Study Technical Roundtable
Date: Wednesday, January 08, 2014 3:27:40 PM

As per our discussion on this afternoon's internal HF call, please see webinar announcement below.

From: U.S. Environmental Protection Agency [mailto:usaepa@service.govdelivery.com]
Sent: Wednesday, January 08, 2014 10:45 AM
To: irz5@cdc.gov
Subject: Upcoming webinar on Hydraulic Fracturing Study Technical Roundtable

Greetings,

Technical Roundtables are an important component of [EPA's Hydraulic Fracturing Study](#). EPA recently held a Technical Roundtable where subject-matter experts discussed the outcomes of the 2013 Technical Workshops, stakeholder engagement, and plans for the draft assessment report expected to be released in December 2014.

EPA will be hosting a one-hour webinar on **Tuesday, January 21, 2014 at 2:30pm EST** to provide a summary of the roundtable. To participate in the webinar, please register at <http://www.clu-in.org/conf/tio/frac9/>

To view roundtable materials and presentations, please visit <http://www2.epa.gov/hfstudy/2013-technical-roundtable>

Thank you for your interest in EPA's Study of the Potential Impacts of Hydraulic Fracturing on Drinking Water Resources.

You can view or update your subscriptions or e-mail address at any time on your [Subscriber Preferences Page](#). All you will need is your e-mail address. If you have any questions or problems e-mail subscriberhelp.govdelivery.com for assistance.

This service is provided to you at no charge by [U.S. Environmental Protection Agency](#).



From: [Werner, Lora S. \(CDC epa.gov\)](#)
To: [Kline, James](#)
Cc: [Helverson, Robert \(CDC epa.gov\)](#); [Markiewicz, Karl \(EPA\) \(CDC epa.gov\)](#); [Beers, Samantha](#); [Dressel, Paul](#); [Dyken, Jill J. \(ATSDR/DCHI/EB\)](#)
Subject: RE: Carter Impoundment - request for your assistance as an independent reviewer for draft ATSDR Health Consultation report
Date: Wednesday, October 30, 2013 10:03:07 AM

Wonderful, Jim! Thank you. We should be able to share a draft for your review later this week.

Best, Lora

Lora Siegmann Werner, MPH
Regional Director, Region 3
Division of Community Health Investigations
Agency for Toxic Substances & Disease Registry (ATSDR)/Centers for Disease Control & Prevention
c/o EPA Region 3
1650 Arch Street
Mailstop 3HS00
Philadelphia, PA 19103

Desk phone: 215-814-3141

Cell phone: 215-588-9778

Fax: 215-814-3003

Emails (only need to use one): lkw9@cdc.gov and werner.lora@epa.gov

From: Kline, James
Sent: Wednesday, October 30, 2013 9:54 AM
To: Werner, Lora
Cc: Helverson, Robert; Markiewicz, Karl; Beers, Samantha; Dressel, Paul
Subject: RE: Carter Impoundment - request for your assistance as an independent reviewer for draft ATSDR Health Consultation report

Lora,

Thank you for the e-mail. I forwarded on your request. We would be glad to help. Please send me a copy of your draft report for review.

Have a great day!

Jim

Jim Kline
US EPA Region 3 - Wheeling, WV
Office of Enforcement, Compliance and Environmental Justice
304-234-0263
kline.james@epa.gov

From: Werner, Lora
Sent: Tuesday, October 29, 2013 1:42 PM
To: Kline, James
Cc: Helverson, Robert; Markiewicz, Karl

Subject: Carter Impoundment - request for your assistance as an independent reviewer for draft ATSDR Health Consultation report

Hi, Jim

As we discussed, we would really appreciate it if you could serve as an independent review for ATSDR's draft health consultation report on the Carter Impoundment air and water data.

We will email you a draft of our report, and then we ask that you fill out the attached one page form indicating whether you recommended approval with or without changes, or do not recommend approval unless changes are made, or do not recommend approval.

We think you would be an excellent reviewer based on your scientific background, and your familiarity with the site and the natural gas industry. Our second reviewer will be from PADOH to provide a public health perspective. The document will then proceed for further review by the normal management chain at ATSDR HQ.

Let us know if this is okay with your management!

Best Lora

Lora Siegmann Werner, MPH
Regional Director, Region 3
Division of Community Health Investigations
Agency for Toxic Substances & Disease Registry (ATSDR)/Centers for Disease Control & Prevention
c/o EPA Region 3
1650 Arch Street
Mailstop 3HS00
Philadelphia, PA 19103

Desk phone: 215-814-3141

Cell phone: 215-588-9778

Fax: 215-814-3003

Emails (only need to use one): lkw9@cdc.gov and werner.lora@epa.gov

From: [Dyken, Jill J. \(ATSDR/DCHI/EB\)](#)
To: [Werner, Lora S. \(CDC epa.gov\)](#)
Cc: [Helverson, Robert \(CDC epa.gov\)](#)
Subject: RE: Carter Impoundment - request for your assistance as an independent reviewer for draft ATSDR Health Consultation report
Date: Thursday, October 31, 2013 12:43:00 PM

Thanks Lora, this is great. Do you have someone from PADOH lined up yet?

Remember, I'd like to get both your and Bob's comments or okay on the changes in the revised version (I will also add in Conclusion 4 as we discussed). E-mail is fine.

Once I have both of your approvals, I will accept the proposed changes and send you the independent review HC so you can forward to the reviewers. Thanks,

Jill Dyken
ATSDR Division of Community Health Investigations
Eastern Branch (Serving Communities in EPA Regions 1, 2, and 3 – Maine to Virginia)
770-488-0768 office direct

From: Werner, Lora S. (CDC epa.gov)
Sent: Wednesday, October 30, 2013 10:03 AM
To: Kline, James
Cc: Helverson, Robert (CDC epa.gov); Markiewicz, Karl (EPA) (CDC epa.gov); Beers, Samantha; Dressel, Paul; Dyken, Jill J. (ATSDR/DCHI/EB)
Subject: RE: Carter Impoundment - request for your assistance as an independent reviewer for draft ATSDR Health Consultation report

Wonderful, Jim! Thank you. We should be able to share a draft for your review later this week.

Best, Lora

Lora Siegmann Werner, MPH
Regional Director, Region 3
Division of Community Health Investigations
Agency for Toxic Substances & Disease Registry (ATSDR)/Centers for Disease Control & Prevention
c/o EPA Region 3
1650 Arch Street
Mailstop 3HS00
Philadelphia, PA 19103

Desk phone: 215-814-3141
Cell phone: 215-588-9778
Fax: 215-814-3003
Emails (only need to use one): lkw9@cdc.gov and werner.lora@epa.gov

From: Kline, James
Sent: Wednesday, October 30, 2013 9:54 AM
To: Werner, Lora

Cc: Helverson, Robert; Markiewicz, Karl; Beers, Samantha; Dressel, Paul
Subject: RE: Carter Impoundment - request for your assistance as an independent reviewer for draft ATSDR Health Consultation report

Lora,

Thank you for the e-mail. I forwarded on your request. We would be glad to help. Please send me a copy of your draft report for review.

Have a great day!

Jim

Jim Kline
US EPA Region 3 - Wheeling, WV
Office of Enforcement, Compliance and Environmental Justice
304-234-0263
kline.james@epa.gov

From: Werner, Lora
Sent: Tuesday, October 29, 2013 1:42 PM
To: Kline, James
Cc: Helverson, Robert; Markiewicz, Karl
Subject: Carter Impoundment - request for your assistance as an independent reviewer for draft ATSDR Health Consultation report

Hi, Jim

As we discussed, we would really appreciate it if you could serve as an independent review for ATSDR's draft health consultation report on the Carter Impoundment air and water data.

We will email you a draft of our report, and then we ask that you fill out the attached one page form indicating whether you recommended approval with or without changes, or do not recommend approval unless changes are made, or do not recommend approval.

We think you would be an excellent reviewer based on your scientific background, and your familiarity with the site and the natural gas industry. Our second reviewer will be from PADOH to provide a public health perspective. The document will then proceed for further review by the normal management chain at ATSDR HQ.

Let us know if this is okay with your management!

Best Lora

Lora Siegmann Werner, MPH
Regional Director, Region 3
Division of Community Health Investigations
Agency for Toxic Substances & Disease Registry (ATSDR)/Centers for Disease Control & Prevention
c/o EPA Region 3
1650 Arch Street
Mailstop 3HS00

Philadelphia, PA 19103

Desk phone: 215-814-3141

Cell phone: 215-588-9778

Fax: 215-814-3003

Emails (only need to use one): lkw9@cdc.gov and werner.lora@epa.gov

From: [Werner, Lora S. \(CDC epa.gov\)](mailto:Werner.Lora.S@CDC.epa.gov)
To: [Dyken, Jill J. \(ATSDR/DCHI/EB\)](mailto:Dyken.Jill.J@ATSDR.DCHI/EB)
Cc: [Helverson, Robert \(CDC epa.gov\)](mailto:Helverson.Robert@CDC.epa.gov)
Subject: Re: Carter Impoundment - request for your assistance as an independent reviewer for draft ATSDR Health Consultation report
Date: Friday, November 01, 2013 10:14:13 AM

Hi Jill

As Bob said we hope to finish up our look at the latest version today. Thank you for staying on us and addressing so many of our comments!!

We are working on the PADOH reviewer. Based on preliminary communications we got yesterday we think Christine Lloyd will be able to do this, but she has to get extra mgt chain approval on her side since it is fracking related, so that is in progress.

THANKS. Lora

From: Dyken, Jill J. (ATSDR/DCHI/EB) <azd9@cdc.gov>
Sent: Thursday, October 31, 2013 12:43:54 PM
To: Werner, Lora
Cc: Helverson, Robert
Subject: RE: Carter Impoundment - request for your assistance as an independent reviewer for draft ATSDR Health Consultation report

Thanks Lora, this is great. Do you have someone from PADOH lined up yet?

Remember, I'd like to get both your and Bob's comments or okay on the changes in the revised version (I will also add in Conclusion 4 as we discussed). E-mail is fine.

Once I have both of your approvals, I will accept the proposed changes and send you the independent review HC so you can forward to the reviewers. Thanks,

Jill Dyken
ATSDR Division of Community Health Investigations
Eastern Branch (Serving Communities in EPA Regions 1, 2, and 3 – Maine to Virginia)
770-488-0768 office direct

From: Werner, Lora S. (CDC epa.gov)
Sent: Wednesday, October 30, 2013 10:03 AM
To: Kline, James
Cc: Helverson, Robert (CDC epa.gov); Markiewicz, Karl (EPA) (CDC epa.gov); Beers, Samantha; Dressel, Paul; Dyken, Jill J. (ATSDR/DCHI/EB)
Subject: RE: Carter Impoundment - request for your assistance as an independent reviewer for draft ATSDR Health Consultation report

Wonderful, Jim! Thank you. We should be able to share a draft for your review later this week.

Best, Lora

Lora Siegmann Werner, MPH
Regional Director, Region 3
Division of Community Health Investigations
Agency for Toxic Substances & Disease Registry (ATSDR)/Centers for Disease Control & Prevention
c/o EPA Region 3
1650 Arch Street
Mailstop 3HS00
Philadelphia, PA 19103

Desk phone: 215-814-3141

Cell phone: 215-588-9778

Fax: 215-814-3003

Emails (only need to use one): lkw9@cdc.gov and werner.lora@epa.gov

From: Kline, James
Sent: Wednesday, October 30, 2013 9:54 AM
To: Werner, Lora
Cc: Helverson, Robert; Markiewicz, Karl; Beers, Samantha; Dressel, Paul
Subject: RE: Carter Impoundment - request for your assistance as an independent reviewer for draft ATSDR Health Consultation report

Lora,

Thank you for the e-mail. I forwarded on your request. We would be glad to help. Please send me a copy of your draft report for review.

Have a great day!

Jim

Jim Kline
US EPA Region 3 - Wheeling, WV
Office of Enforcement, Compliance and Environmental Justice
304-234-0263
kline.james@epa.gov

From: Werner, Lora
Sent: Tuesday, October 29, 2013 1:42 PM
To: Kline, James
Cc: Helverson, Robert; Markiewicz, Karl
Subject: Carter Impoundment - request for your assistance as an independent reviewer for draft ATSDR Health Consultation report

Hi, Jim

As we discussed, we would really appreciate it if you could serve as an independent review for ATSDR's draft health consultation report on the Carter Impoundment air and water data.

We will email you a draft of our report, and then we ask that you fill out the attached one page form

indicating whether you recommended approval with or without changes, or do not recommend approval unless changes are made, or do not recommend approval.

We think you would be an excellent reviewer based on your scientific background, and your familiarity with the site and the natural gas industry. Our second reviewer will be from PADOH to provide a public health perspective. The document will then proceed for further review by the normal management chain at ATSDR HQ.

Let us know if this is okay with your management!

Best Lora

Lora Siegmann Werner, MPH
Regional Director, Region 3
Division of Community Health Investigations
Agency for Toxic Substances & Disease Registry (ATSDR)/Centers for Disease Control & Prevention
c/o EPA Region 3
1650 Arch Street
Mailstop 3HS00
Philadelphia, PA 19103

Desk phone: 215-814-3141

Cell phone: 215-588-9778

Fax: 215-814-3003

Emails (only need to use one): lkw9@cdc.gov and werner.lora@epa.gov

Once I have both of your approvals, I will accept the proposed changes and send you the independent review HC so you can forward to the reviewers. Thanks,

Jill Dyken

ATSDR Division of Community Health Investigations

Eastern Branch (Serving Communities in EPA Regions 1, 2, and 3 – Maine to Virginia)

770-488-0768 office direct

From: Werner, Lora S. (CDC epa.gov)

Sent: Wednesday, October 30, 2013 10:03 AM

To: Kline, James

Cc: Helverson, Robert (CDC epa.gov); Markiewicz, Karl (EPA) (CDC epa.gov); Beers, Samantha; Dressel, Paul; Dyken, Jill J. (ATSDR/DCHI/EB)

Subject: RE: Carter Impoundment - request for your assistance as an independent reviewer for draft ATSDR Health Consultation report

Wonderful, Jim! Thank you. We should be able to share a draft for your review later this week.

Best, Lora

Lora Siegmann Werner, MPH

Regional Director, Region 3

Division of Community Health Investigations

Agency for Toxic Substances & Disease Registry (ATSDR)/Centers for Disease Control & Prevention

c/o EPA Region 3

1650 Arch Street

Mailstop 3HS00

Philadelphia, PA 19103

Desk phone: 215-814-3141

Cell phone: 215-588-9778

Fax: 215-814-3003

Emails (only need to use one): lk9@cdc.gov and werner.lora@epa.gov

From: Kline, James

Sent: Wednesday, October 30, 2013 9:54 AM

To: Werner, Lora

Cc: Helverson, Robert; Markiewicz, Karl; Beers, Samantha; Dressel, Paul

Subject: RE: Carter Impoundment - request for your assistance as an independent reviewer for draft ATSDR Health Consultation report

Lora,

Thank you for the e-mail. I forwarded on your request. We would be glad to help. Please send me a copy of your draft report for review.

Have a great day!

Jim

Jim Kline
US EPA Region 3 - Wheeling, WV
Office of Enforcement, Compliance and Environmental Justice
304-234-0263
kline.james@epa.gov

From: Werner, Lora
Sent: Tuesday, October 29, 2013 1:42 PM
To: Kline, James
Cc: Helverson, Robert; Markiewicz, Karl
Subject: Carter Impoundment - request for your assistance as an independent reviewer for draft ATSDR Health Consultation report

Hi, Jim

As we discussed, we would really appreciate it if you could serve as an independent review for ATSDR's draft health consultation report on the Carter Impoundment air and water data.

We will email you a draft of our report, and then we ask that you fill out the attached one page form indicating whether you recommended approval with or without changes, or do not recommend approval unless changes are made, or do not recommend approval.

We think you would be an excellent reviewer based on your scientific background, and your familiarity with the site and the natural gas industry. Our second reviewer will be from PADOH to provide a public health perspective. The document will then proceed for further review by the normal management chain at ATSDR HQ.

Let us know if this is okay with your management!

Best Lora

Lora Siegmann Werner, MPH
Regional Director, Region 3
Division of Community Health Investigations
Agency for Toxic Substances & Disease Registry (ATSDR)/Centers for Disease Control & Prevention
c/o EPA Region 3
1650 Arch Street
Mailstop 3HS00
Philadelphia, PA 19103

Desk phone: 215-814-3141

Cell phone: 215-588-9778

Fax: 215-814-3003

Emails (only need to use one): lkw9@cdc.gov and werner.lora@epa.gov

think Christine Lloyd will be able to do this, but she has to get extra mgt chain approval on her side since it is fracking related, so that is in progress.

THANKS. Lora

From: Dyken, Jill J. (ATSDR/DCHI/EB) <azd9@cdc.gov>
Sent: Thursday, October 31, 2013 12:43:54 PM
To: Werner, Lora
Cc: Helverson, Robert
Subject: RE: Carter Impoundment - request for your assistance as an independent reviewer for draft ATSDR Health Consultation report

Thanks Lora, this is great. Do you have someone from PADOH lined up yet?

Remember, I'd like to get both your and Bob's comments or okay on the changes in the revised version (I will also add in Conclusion 4 as we discussed). E-mail is fine.

Once I have both of your approvals, I will accept the proposed changes and send you the independent review HC so you can forward to the reviewers. Thanks,

Jill Dyken
ATSDR Division of Community Health Investigations
Eastern Branch (Serving Communities in EPA Regions 1, 2, and 3 – Maine to Virginia)
770-488-0768 office direct

From: Werner, Lora S. (CDC epa.gov)
Sent: Wednesday, October 30, 2013 10:03 AM
To: Kline, James
Cc: Helverson, Robert (CDC epa.gov); Markiewicz, Karl (EPA) (CDC epa.gov); Beers, Samantha; Dressel, Paul; Dyken, Jill J. (ATSDR/DCHI/EB)
Subject: RE: Carter Impoundment - request for your assistance as an independent reviewer for draft ATSDR Health Consultation report

Wonderful, Jim! Thank you. We should be able to share a draft for your review later this week.

Best, Lora

Lora Siegmann Werner, MPH
Regional Director, Region 3
Division of Community Health Investigations
Agency for Toxic Substances & Disease Registry (ATSDR)/Centers for Disease Control & Prevention
c/o EPA Region 3
1650 Arch Street
Mailstop 3HS00
Philadelphia, PA 19103

Desk phone: 215-814-3141

Cell phone: 215-588-9778

Fax: 215-814-3003

Emails (only need to use one): lkw9@cdc.gov and werner.lora@epa.gov

From: Kline, James

Sent: Wednesday, October 30, 2013 9:54 AM

To: Werner, Lora

Cc: Helverson, Robert; Markiewicz, Karl; Beers, Samantha; Dressel, Paul

Subject: RE: Carter Impoundment - request for your assistance as an independent reviewer for draft ATSDR Health Consultation report

Lora,

Thank you for the e-mail. I forwarded on your request. We would be glad to help. Please send me a copy of your draft report for review.

Have a great day!

Jim

Jim Kline

US EPA Region 3 - Wheeling, WV

Office of Enforcement, Compliance and Environmental Justice

304-234-0263

kline.james@epa.gov

From: Werner, Lora

Sent: Tuesday, October 29, 2013 1:42 PM

To: Kline, James

Cc: Helverson, Robert; Markiewicz, Karl

Subject: Carter Impoundment - request for your assistance as an independent reviewer for draft ATSDR Health Consultation report

Hi, Jim

As we discussed, we would really appreciate it if you could serve as an independent review for ATSDR's draft health consultation report on the Carter Impoundment air and water data.

We will email you a draft of our report, and then we ask that you fill out the attached one page form indicating whether you recommended approval with or without changes, or do not recommend approval unless changes are made, or do not recommend approval.

We think you would be an excellent reviewer based on your scientific background, and your familiarity with the site and the natural gas industry. Our second reviewer will be from PADOH to provide a public health perspective. The document will then proceed for further review by the normal management chain at ATSDR HQ.

Let us know if this is okay with your management!

Best Lora

Lora Siegmann Werner, MPH

Regional Director, Region 3
Division of Community Health Investigations
Agency for Toxic Substances & Disease Registry (ATSDR)/Centers for Disease Control & Prevention
c/o EPA Region 3
1650 Arch Street
Mailstop 3HS00
Philadelphia, PA 19103

Desk phone: 215-814-3141

Cell phone: 215-588-9778

Fax: 215-814-3003

Emails (only need to use one): lkw9@cdc.gov and werner.lora@epa.gov

Sent: Friday, November 01, 2013 10:14 AM

To: azd9@cdc.gov

Cc: Helverson, Robert

Subject: Re: Carter Impoundment - request for your assistance as an independent reviewer for draft ATSDR Health Consultation report

Hi Jill

As Bob said we hope to finish up our look at the latest version today. Thank you for staying on us and addressing so many of our comments!!

We are working on the PADOH reviewer. Based on preliminary communications we got yesterday we think Christine Lloyd will be able to do this, but she has to get extra mgt chain approval on her side since it is fracking related, so that is in progress.

THANKS. Lora

From: Dyken, Jill J. (ATSDR/DCHI/EB) <azd9@cdc.gov>

Sent: Thursday, October 31, 2013 12:43:54 PM

To: Werner, Lora

Cc: Helverson, Robert

Subject: RE: Carter Impoundment - request for your assistance as an independent reviewer for draft ATSDR Health Consultation report

Thanks Lora, this is great. Do you have someone from PADOH lined up yet?

Remember, I'd like to get both your and Bob's comments or okay on the changes in the revised version (I will also add in Conclusion 4 as we discussed). E-mail is fine.

Once I have both of your approvals, I will accept the proposed changes and send you the independent review HC so you can forward to the reviewers. Thanks,

Jill Dyken

ATSDR Division of Community Health Investigations

Eastern Branch (Serving Communities in EPA Regions 1, 2, and 3 – Maine to Virginia)

770-488-0768 office direct

From: Werner, Lora S. (CDC epa.gov)

Sent: Wednesday, October 30, 2013 10:03 AM

To: Kline, James

Cc: Helverson, Robert (CDC epa.gov); Markiewicz, Karl (EPA) (CDC epa.gov); Beers, Samantha; Dressel, Paul; Dyken, Jill J. (ATSDR/DCHI/EB)

Subject: RE: Carter Impoundment - request for your assistance as an independent reviewer for draft ATSDR Health Consultation report

Wonderful, Jim! Thank you. We should be able to share a draft for your review later this week.

Best, Lora

Lora Siegmann Werner, MPH
Regional Director, Region 3
Division of Community Health Investigations
Agency for Toxic Substances & Disease Registry (ATSDR)/Centers for Disease Control & Prevention
c/o EPA Region 3
1650 Arch Street
Mailstop 3HS00
Philadelphia, PA 19103

Desk phone: 215-814-3141

Cell phone: 215-588-9778

Fax: 215-814-3003

Emails (only need to use one): lkw9@cdc.gov and werner.lora@epa.gov

From: Kline, James
Sent: Wednesday, October 30, 2013 9:54 AM
To: Werner, Lora
Cc: Helverson, Robert; Markiewicz, Karl; Beers, Samantha; Dressel, Paul
Subject: RE: Carter Impoundment - request for your assistance as an independent reviewer for draft ATSDR Health Consultation report

Lora,

Thank you for the e-mail. I forwarded on your request. We would be glad to help. Please send me a copy of your draft report for review.

Have a great day!

Jim

Jim Kline
US EPA Region 3 - Wheeling, WV
Office of Enforcement, Compliance and Environmental Justice
304-234-0263
kline.james@epa.gov

From: Werner, Lora
Sent: Tuesday, October 29, 2013 1:42 PM
To: Kline, James
Cc: Helverson, Robert; Markiewicz, Karl
Subject: Carter Impoundment - request for your assistance as an independent reviewer for draft ATSDR Health Consultation report

Hi, Jim

As we discussed, we would really appreciate it if you could serve as an independent review for ATSDR's draft health consultation report on the Carter Impoundment air and water data.

We will email you a draft of our report, and then we ask that you fill out the attached one page form indicating whether you recommended approval with or without changes, or do not recommend approval unless changes are made, or do not recommend approval.

We think you would be an excellent reviewer based on your scientific background, and your familiarity with the site and the natural gas industry. Our second reviewer will be from PADOH to provide a public health perspective. The document will then proceed for further review by the normal management chain at ATSDR HQ.

Let us know if this is okay with your management!

Best Lora

Lora Siegmann Werner, MPH
Regional Director, Region 3
Division of Community Health Investigations
Agency for Toxic Substances & Disease Registry (ATSDR)/Centers for Disease Control & Prevention
c/o EPA Region 3
1650 Arch Street
Mailstop 3HS00
Philadelphia, PA 19103

Desk phone: 215-814-3141

Cell phone: 215-588-9778

Fax: 215-814-3003

Emails (only need to use one): lkw9@cdc.gov and werner.lora@epa.gov

THANKS. Lora

From: Dyken, Jill J. (ATSDR/DCHI/EB) <azd9@cdc.gov>
Sent: Thursday, October 31, 2013 12:43:54 PM
To: Werner, Lora
Cc: Helverson, Robert
Subject: RE: Carter Impoundment - request for your assistance as an independent reviewer for draft ATSDR Health Consultation report

Thanks Lora, this is great. Do you have someone from PADOH lined up yet?

Remember, I'd like to get both your and Bob's comments or okay on the changes in the revised version (I will also add in Conclusion 4 as we discussed). E-mail is fine.

Once I have both of your approvals, I will accept the proposed changes and send you the independent review HC so you can forward to the reviewers. Thanks,

Jill Dyken
ATSDR Division of Community Health Investigations
Eastern Branch (Serving Communities in EPA Regions 1, 2, and 3 – Maine to Virginia)
770-488-0768 office direct

From: Werner, Lora S. (CDC epa.gov)
Sent: Wednesday, October 30, 2013 10:03 AM
To: Kline, James
Cc: Helverson, Robert (CDC epa.gov); Markiewicz, Karl (EPA) (CDC epa.gov); Beers, Samantha; Dressel, Paul; Dyken, Jill J. (ATSDR/DCHI/EB)
Subject: RE: Carter Impoundment - request for your assistance as an independent reviewer for draft ATSDR Health Consultation report

Wonderful, Jim! Thank you. We should be able to share a draft for your review later this week.

Best, Lora

Lora Siegmann Werner, MPH
Regional Director, Region 3
Division of Community Health Investigations
Agency for Toxic Substances & Disease Registry (ATSDR)/Centers for Disease Control & Prevention
c/o EPA Region 3
1650 Arch Street
Mailstop 3HS00
Philadelphia, PA 19103

Desk phone: 215-814-3141
Cell phone: 215-588-9778
Fax: 215-814-3003

Emails (only need to use one): lkw9@cdc.gov and werner.lora@epa.gov

From: Kline, James
Sent: Wednesday, October 30, 2013 9:54 AM
To: Werner, Lora
Cc: Helverson, Robert; Markiewicz, Karl; Beers, Samantha; Dressel, Paul
Subject: RE: Carter Impoundment - request for your assistance as an independent reviewer for draft ATSDR Health Consultation report

Lora,

Thank you for the e-mail. I forwarded on your request. We would be glad to help. Please send me a copy of your draft report for review.

Have a great day!

Jim

Jim Kline
US EPA Region 3 - Wheeling, WV
Office of Enforcement, Compliance and Environmental Justice
304-234-0263
kline.james@epa.gov

From: Werner, Lora
Sent: Tuesday, October 29, 2013 1:42 PM
To: Kline, James
Cc: Helverson, Robert; Markiewicz, Karl
Subject: Carter Impoundment - request for your assistance as an independent reviewer for draft ATSDR Health Consultation report

Hi, Jim

As we discussed, we would really appreciate it if you could serve as an independent review for ATSDR's draft health consultation report on the Carter Impoundment air and water data.

We will email you a draft of our report, and then we ask that you fill out the attached one page form indicating whether you recommended approval with or without changes, or do not recommend approval unless changes are made, or do not recommend approval.

We think you would be an excellent reviewer based on your scientific background, and your familiarity with the site and the natural gas industry. Our second reviewer will be from PADOH to provide a public health perspective. The document will then proceed for further review by the normal management chain at ATSDR HQ.

Let us know if this is okay with your management!

Best Lora

Lora Siegmann Werner, MPH
Regional Director, Region 3
Division of Community Health Investigations

Agency for Toxic Substances & Disease Registry (ATSDR)/Centers for Disease Control & Prevention
c/o EPA Region 3
1650 Arch Street
Mailstop 3HS00
Philadelphia, PA 19103

Desk phone: 215-814-3141

Cell phone: 215-588-9778

Fax: 215-814-3003

Emails (only need to use one): lkw9@cdc.gov and werner.lora@epa.gov

From: [Helsonson, Robert \(CDC epa.gov\)](#)
To: [Dyken, Jill J. \(ATSDR/DCHI/EB\)](#)
Subject: FW: FYI - article mentions Carter impoundment
Date: Wednesday, November 06, 2013 3:06:23 PM
Attachments: [Carter Impoundment NRC Reports.docx](#)

Hi Jill,
Just to keep your records complete, I received the attached summary from EPA staff regarding the national response center complaints.

Robert H. Helverson
Region 3 Representative
Division of Community Health Investigations (DCHI)
Agency for Toxic Substances and Disease Registry (ATSDR)
Centers for Disease Control and Prevention (CDC)
1650 Arch Street (3HS00)
Philadelphia, PA 19103
(215) 814-3139 (Office)
(215) 814-3003 (Fax)
email: gfu6@cdc.gov

From: Elsner, Kurt
Sent: Wednesday, November 06, 2013 2:23 PM
To: Helverson, Robert
Subject: RE: FYI - article mentions Carter impoundment

Bob:

Thanks for your time. Here is the document summarizing the Carter Impoundment reports from Fall of 2012 to present. If I add anything to the last column, I will sent the updated document to you.

Thanks,

Kurt

From: Helverson, Robert
Sent: Wednesday, November 06, 2013 12:21 PM
To: Elsner, Kurt; Werner, Lora; Markiewicz, Karl
Subject: Re: FYI - article mentions Carter impoundment

Kurt,
Thank you for this news article. I have heard about the earlier Range proposal for converting a freshwater and closing Carter, but hadn't heard about this new proposal or the Board's opinions. An interesting and difficult situation for this township.

NRC Complaints received involving Mt. Pleasant Washington County Carter Impoundment (Fall 2012 to Present)

Date / Time / Weather of Report	NRC NO.	Caller	Incident Description	Initial EPA Action	APD Notes
8/17/13 (Sat) @ 8:30 am 78 deg & Sunny	1057399	(b) (6)	Fumes coming off a nearby Frac Pond	NRC report sent to Air Division (K. Elsner) for follow-up/coordination based on protocol for the Carter Impoundment Reports	
8/11/13 (Sun) @ 7:15 pm 79 deg. & P. Cloudy	1056802		Strong heavy oil smell coming from the Carter Impoundment	Same incident as 1440691. The caller wanted documentation that this release happened on 8/10 as well as 8/11. Contacted PEMA. They are aware of the 2 ⁿ call. This is the 3 rd call from this particular impoundment this weekend.	
8/11/13 (Sun) @ 7:05 pm 79 deg. & Partly Cloudy	1056797		Caller stated there is strong oil odors coming from a company near their residence.	Duty Officer contacted PEMA. They will contact PADEP if assistance is needed. This is the 2 nd call this weekend involving the fracking operation at this location. Duty Officer recommends follow up by Marcellus Shale POC.	
8/10/13 (Sat) @ 9:00 am 82 deg & Overcast	1056683		Caller stated that there is a strong smell in the atmosphere coming from the pond down the hill from their house.	Duty Officer first contacted resident because indicated a possible immediate health hazard. Duty Officer asked if resident had contacted Fire Dept. She had not and advised that this is a result of odors coming from a fracking pond. The fracking is being performed by Range Resources. Duty Officer contacted PEMA and passed on this information. PEMA will notify PADEP and call if assistance is necessary. Duty Officer recommends this report be forwarded to Marcellus Shale group.	
8/01/13 (Thu) @ 10:30 pm 65 deg & Clear	1055862		Caller reported that a strong chemical smell is coming from a facility.	Duty Officer Zenone followed-up, contacted PEMA who confirmed receipt of NRC report to be passed along to EPAR3 "Marcellus Group" C/O Steve Jarvela for info/dispo. No EPA R3 removal response activities anticipated.	
7/18/13 (Thu) @ 6:00 am 70 deg & Overcast	1054236		Caller is reporting a strong acid petroleum smell coming from a frack pond behind his home.	Faxed report to PADEP V. E-Mailed reports to Southwest PA / Wheeling WV sub-area OSCs, S. Jarvela and K. Hall (3AP20)	
7/18/13 (Thur) @ 06:00 am 75 deg. & Foggy	1054235		Caller is reporting that starting at about 10pm last night through this morning there is a very thick odor coming from the frac pond. The odors occur regularly, but the smell is very bad today.	Faxed report to PADEP V. E-mailed report to Southwest PA / Wheeling WV sub-area OSCs, S. Jarvela and K. Hall (3AP20).	

NRC Complaints received involving Mt. Pleasant Washington County Carter Impoundment (Fall 2012 to Present)

Date / Time / Weather of Report	NRC NO.	Caller	Incident Description	Initial EPA Action	APD Notes
7/17/13 (Wed) @ 11:30 am 85 deg & Sunny	1054198	(b) (6)	Odors emanating from the area of a gas well pad or waste water impoundment starting @ 11:30 am. Checking the area with a VOC Hygiene monitor resulted in readings as high as 42 ppm.	Notifications made by NRC. Report emailed to Southwest PA Sub Area OSCs.	
7/16/13 (Tue) @ 10:15 pm 75 deg & Overcast	1054069		The caller is reporting a release of an unknown chemical (petro chemical odor) into the atmosphere. The caller stated it is believed that the material/odor is coming from natural gas well or a waste water impoundment.	see NRC 1054064.	
7/16/13 (Tue) @ 9:30 pm 78 deg. & Overcast	1054064		Caller is reporting a release of an unknown material (fertilizer/chemical odor) into the atmosphere. The caller stated that it is unknown at this time what caused the odor. The odor is coming from a waste water impoundment near a residential area.	Notification made by NRC. PADEP Oil & Gas expected to investigate. No EPA assistance requested at this time. Email report to Southwest PA Sub Area OSCs	
7/15/13 (Mon) @ 10:15 am 90 deg. & Sunny	1053894		Caller stated that there is a strong chemical smell in the air. The caller does not know what, or where the odor is coming from.	Faxed report to PADEP V. E-mailed report to Southwest PA / Wheeling WV sub-area OSCs, S. Jarvela, and K. Hall 3AP20.	
7/15/13 (Mon) @ 6:00 pm 85 deg. & Sunny	1053878		Caller is making a report involving an issue with readings of 65 ppm VOC emitting from either a well site area or a nearby natural gas processing plant. Caller states that there is flaring activity taking place at the plant.	Faxed report to PADEP V. E-mailed report to Southwest PA / Wheeling WV sub-area OSCs, S. Jarvela, and K. Hall 3AP20.	
7/14/13 (Sun) & 9:00 pm 80 deg. & clear	1053852		Caller stated that there is an unknown odor coming from a frac pond near a residential area.	Faxed report to PADEP V. E-mailed report to Southwest PA / Wheeling WV sub-area OSCs, S. Jarvela, and K. Hall 3AP20.	
7/10/13 @ 10:15 am 75 deg & Partly Cloudy	1053327		Caller stated that there is a strong chemical smell in the air that may be coming from a fracking area behind the property.	Potential Release; Notification given to OSC Jarvela (fracking) and Area OSCs Lindsey, Linden and Matlock. Also report sent to Air.	
5/28/13 (Tue) @ 9:40 pm 60 deg & Partly Cloudy	1048585		Caller stated that there are strong odors from an impoundment near their residence. Caller also stated that there are unknown materials being released due to fracking at the impoundment	PADEP notified of odor complaint. Fracking complaint. No EPA involvement anticipated.	

NRC Complaints received involving Mt. Pleasant Washington County Carter Impoundment (Fall 2012 to Present)

Date / Time / Weather of Report	NRC NO.	Caller	Incident Description	Initial EPA Action	APD Notes
4/22/13 (Mon) @ 11:30 am 55 deg. & Sunny	1044706	(b) (6)	Caller stated that there are materials being released from the fracking pond.	Faxed report to PADEP V. E-mailed report to D. Lindsey (sub-area OSC), S. Jarvela, M. Price-Fay (3AP42), J. Kilpatrick (3HS61) and L. Holliday (3HS61).	
4/17/13 (Wed) @ 2:55 pm 65 deg. & Sunny	1044249	(b) (6)	Caller is reporting a company that is fracking near a private residence. Several chemicals are being released. Caller stated that the odor is strong.	Report sent to Subarea OSC Lindsey. Report also sent to OSC Jarvela due to fracking concern. Report faxed to PADEP Region V. Notified APD. Second report made by the Reporting Party regarding this release. No further EPA action anticipated.	
4/11/13 (Thu) @ 9:45 am 60 deg & Partly Cloudy	1043622	(b) (6)	Caller is reporting a strong odor coming from the fracking pond that is approximately 200 yards from their residence.	Forward NRC Report to OSC D Lindsey	
12/18/12 (Tue) @ Midnight 35 deg. & Cloudy	1033568	(b) (6)	There has been activity at the Carter Impoundment that is used recycling flow back and produced water. The landowners surrounding the property have been monitoring the situation. The official line from the company is that it is "Routine Maintenance". However, they have removed the holding tanks (seen in the November photo) and at least 20 dumpsters full of dirt. The landowners have notified PADEP and local authorities but have gotten little action at this point.	Faxed report and attachment to PADEP V. E-mailed report and attachment to Debbie Lindsey.	Appears that Linda Marzulli (EPA R3) filed this report on behalf of the residents surrounding the Carter impoundment. Appears to be no air complaints.
12/11/12 (Tue) @ 12:00 pm 35 deg & Rainy	1033059	(b) (6)	The caller is reporting an unknown sheen in a local stream. The caller stated that foamy material was discovered in the stream. The caller stated that a local residual waste impoundment was discovered removing tanks at a location near the stream and excavating soil. It is believed that an unknown material from the tanks caused the foamy material in the stream. The caller stated that the foamy sheen has been noticed the past 2 days (i.e., Dec. 10 and 11).	Confirmed that PEMA received NRC Report and forwarded to PADEP. Offered EPA assistance if needed.	Only tip where train or snow was occurring at the time of the complaint. No air complaints.

NRC Complaints received involving Mt. Pleasant Washington County Carter Impoundment (Fall 2012 to Present)

Date / Time / Weather of Report	NRC NO.	Caller	Incident Description	Initial EPA Action	APD Notes
12/01/12 (Sat) @ 3:00 pm 45 deg. & Overcast	1032043	(b) (6)	Caller is reporting an odor coming from a frac site.	received report. NRC made notification to State. No further EPA action anticipated.	
11/29/12 (Thu) @ 7:15 pm 40 deg. & P. Cloudy	1031891	(b) (6)	Caller is reporting an odor that is suspected to be coming from a frac pound. Caller stated that they cannot go outside due to the odor. Caller stated that PADEP has been notified and has come out to the farm to assess the situation.	NRC Duty Officer reported that citizen stated that contamination in pond is due to Marcellus Shale fracking operations. She also stated that PADEP has been on Site and has informed her that the pond must be treated. However, no action has been taken to treat the pond. Duty Officer called PEMA and they have received report, but will pass it on to PADEP.	Only complaint that acknowledges that PADEP has attempted to do something at the site.

Notes:

1) Last complaint prior to 11/29/12 was 4/1/11.

Bob

From: Elsner, Kurt
Sent: Wednesday, November 06, 2013 9:22:43 AM
To: Helverson, Robert
Subject: FW: FYI - article mentions Carter impoundment

Hi Bob:

Were you aware of this? I'm not sure what to make of it. Do you know if there have been additional hearing held?

Thanks,

Kurt

From: McFadden, Angela
Sent: Friday, October 18, 2013 11:54 AM
To: Elsner, Kurt
Subject: FYI - article mentions Carter impoundment

Copyright 2012 Observer Publishing Company. All rights reserved.

by [Karen Mansfield](#)
Staff Writer
kmansfield@observer-reporter.com
Washington Co.

Monday, October 7, 2013

Pleasant Township supervisors voted unanimously Monday to table a proposed agreement with Range Resources regarding four water impoundments operated by the natural gas drilling company.

The proposal included some modifications to a resolution Range proposed Sept. 28, which supervisors unanimously rejected, but still calls for closing the Carter impoundment and converting the Stewart impoundment into an above-ground holding facility.

Range's new proposal calls for the Cowden and Clingerman impoundments to be decommissioned and reclaimed within three and five years, respectively, and limits the use of the Cowden impoundment to the development of wells within the township and adjoining municipalities.

The Carter impoundment is a facility that recycles water used in the hydraulic fracturing process, while the Cowden and Clingerman impoundments are used for fresh water storage.

Supervisor Bryan Smith said he is opposed to moving a nonfresh water impoundment from one area zoned A-1 to another A-1 area.

The township maintains the position Range violated the township zoning ordinance by failing to restore the impoundments after completing all nearby frack wells.

“We issued these violations because they were in an A-1 area in the first place,” said Smith.

“It may be best for a certain group surrounding the Carter impoundment as it is today, and it may be good for the people in the fresh water compoundments that may be going away within five years, but how is it fair for us to take it away from a zoned area that we feel isn’t allowable for that and putting it in the exact same zoning area in the other end of town?” asked Smith.

Supervisors Larry Grimm and Arden McCartney said they don’t believe an area zoned A-1 is the best place for the impoundment, but believe it’s the best solution.

“The Carter impoundment is my impetus for doing this,” said Grimm. “These people have been living with that toxic waste dump down there along time. That’s why I pushed for this settlement that we have.”

Smith contends that the township is simply transferring the problem from one area to another.

“I don’t feel we have all the information we need tonight to make a decision,” said Smith.

About 40 residents attended the meeting, and several voiced their belief that the impoundments are more suited for an industrial zoned district, not an A-1 district.

Supervisors also postponed a zoning hearing board meeting related to the impoundments that was scheduled for tonight.

Range attorney Shawn Gallagher agreed to delaying the zoning hearing meeting, but said the company has provided the township with all of the information it would need to make a decision on the proposal.

“This is the solution we put forth, and we think it’s a very good one,” said Gallagher.

From: [Dyken, Jill J. \(ATSDR/DCHI/EB\)](#)
To: [Helverson, Robert \(CDC epa.gov\)](#)
Subject: RE: FYI - article mentions Carter impoundment
Date: Wednesday, November 06, 2013 3:23:00 PM

Thanks, Bob!

Jill Dyken
ATSDR Division of Community Health Investigations
Eastern Branch (Serving Communities in EPA Regions 1, 2, and 3 – Maine to Virginia)
770-488-0768 office direct

From: Helverson, Robert (CDC epa.gov)
Sent: Wednesday, November 06, 2013 3:06 PM
To: Dyken, Jill J. (ATSDR/DCHI/EB)
Subject: FW: FYI - article mentions Carter impoundment

Hi Jill,
Just to keep your records complete, I received the attached summary from EPA staff regarding the national response center complaints.

Robert H. Helverson
Region 3 Representative
Division of Community Health Investigations (DCHI)
Agency for Toxic Substances and Disease Registry (ATSDR)
Centers for Disease Control and Prevention (CDC)
1650 Arch Street (3HS00)
Philadelphia, PA 19103
(215) 814-3139 (Office)
(215) 814-3003 (Fax)
email: gfu6@cdc.gov

From: Elsner, Kurt
Sent: Wednesday, November 06, 2013 2:23 PM
To: Helverson, Robert
Subject: RE: FYI - article mentions Carter impoundment

Bob:

Thanks for your time. Here is the document summarizing the Carter Impoundment reports from Fall of 2012 to present. If I add anything to the last column, I will sent the updated document to you.

Thanks,

Kurt

From: Helverson, Robert
Sent: Wednesday, November 06, 2013 12:21 PM
To: Elsner, Kurt; Werner, Lora; Markiewicz, Karl
Subject: Re: FYI - article mentions Carter impoundment

Kurt,

Thank you for this news article. I have heard about the earlier Range proposal for converting a freshwater and closing Carter, but hadn't heard about this new proposal or the Board's opinions. An interesting and difficult situation for this township.

Bob

From: Elsner, Kurt
Sent: Wednesday, November 06, 2013 9:22:43 AM
To: Helverson, Robert
Subject: FW: FYI - article mentions Carter impoundment

Hi Bob:

Were you aware of this? I'm not sure what to make of it. Do you know if there have been additional hearing held?

Thanks,

Kurt

From: McFadden, Angela
Sent: Friday, October 18, 2013 11:54 AM
To: Elsner, Kurt
Subject: FYI - article mentions Carter impoundment

Copyright 2012 Observer Publishing Company. All rights reserved.

by [Karen Mansfield](#)
Staff Writer
kmansfield@observer-reporter.com

Washington Co.

Monday, October 7, 2013

Pleasant Township supervisors voted unanimously Monday to table a proposed agreement with Range Resources regarding four water impoundments operated by the natural gas drilling company.

The proposal included some modifications to a resolution Range proposed Sept. 28, which supervisors unanimously rejected, but still calls for closing the Carter impoundment and converting the Stewart impoundment into an above-ground holding facility.

Range's new proposal calls for the Cowden and Clingerman impoundments to be decommissioned and reclaimed within three and five years, respectively, and limits the use of the Cowden impoundment to the development of wells within the township and adjoining municipalities.

The Carter impoundment is a facility that recycles water used in the hydraulic fracturing process, while the Cowden and Clingerman impoundments are used for fresh water storage.

Supervisor Bryan Smith said he is opposed to moving a nonfresh water impoundment from one area zoned A-1 to another A-1 area.

The township maintains the position Range violated the township zoning ordinance by failing to restore the impoundments after completing all nearby frack wells.

"We issued these violations because they were in an A-1 area in the first place," said Smith. "It may be best for a certain group surrounding the Carter impoundment as it is today, and it may be good for the people in the fresh water compoundments that may be going away within five years, but how is it fair for us to take it away from a zoned area that we feel isn't allowable for that and putting it in the exact same zoning area in the other end of town?" asked Smith.

Supervisors Larry Grimm and Arden McCartney said they don't believe an area zoned A-1 is the best place for the impoundment, but believe it's the best solution.

"The Carter impoundment is my impetus for doing this," said Grimm. "These people have been living with that toxic waste dump down there along time. That's why I pushed for this settlement that we have."

Smith contends that the township is simply transferring the problem from one area to another.

"I don't feel we have all the information we need tonight to make a decision," said Smith.

About 40 residents attended the meeting, and several voiced their belief that the impoundments are more suited for an industrial zoned district, not an A-1 district.

Supervisors also postponed a zoning hearing board meeting related to the impoundments that was scheduled for tonight.

Range attorney Shawn Gallagher agreed to delaying the zoning hearing meeting, but said the company has provided the township with all of the information it would need to make a decision on the proposal.

"This is the solution we put forth, and we think it's a very good one," said Gallagher.

From: [Werner, Lora S. \(CDC epa.gov\)](#)
To: [Dyken, Jill J. \(ATSDR/DCHI/EB\)](#)
Subject: Fw: FYI - article mentions Carter impoundment
Date: Thursday, November 07, 2013 3:35:37 PM

Not sure if Bob shared this with you? It is from back on 10/7 so during the furlough period....

From: Helverson, Robert
Sent: Wednesday, November 06, 2013 12:21:34 PM
To: Elsner, Kurt; Werner, Lora; Markiewicz, Karl
Subject: Re: FYI - article mentions Carter impoundment

Kurt,

Thank you for this news article. I have heard about the earlier Range proposal for converting a freshwater and closing Carter, but hadn't heard about this new proposal or the Board's opinions. An interesting and difficult situation for this township.

Bob

From: Elsner, Kurt
Sent: Wednesday, November 06, 2013 9:22:43 AM
To: Helverson, Robert
Subject: FW: FYI - article mentions Carter impoundment

Hi Bob:

Were you aware of this? I'm not sure what to make of it. Do you know if there have been additional hearing held?

Thanks,

Kurt

From: McFadden, Angela
Sent: Friday, October 18, 2013 11:54 AM
To: Elsner, Kurt
Subject: FYI - article mentions Carter impoundment

Copyright 2012 Observer Publishing Company.All rights reserved.

by [Karen Mansfield](#)
Staff Writer
kmansfield@observer-reporter.com
Washington Co.
Monday, October 7, 2013

Pleasant Township supervisors voted unanimously Monday to table a proposed agreement with Range Resources regarding four water impoundments operated by the natural gas drilling company.

The proposal included some modifications to a resolution Range proposed Sept. 28, which supervisors unanimously rejected, but still calls for closing the Carter impoundment and converting the Stewart impoundment into an above-ground holding facility.

Range's new proposal calls for the Cowden and Clingerman impoundments to be decommissioned and reclaimed within three and five years, respectively, and limits the use of the Cowden impoundment to the development of wells within the township and adjoining municipalities.

The Carter impoundment is a facility that recycles water used in the hydraulic fracturing process, while the Cowden and Clingerman impoundments are used for fresh water storage.

Supervisor Bryan Smith said he is opposed to moving a nonfresh water impoundment from one area zoned A-1 to another A-1 area.

The township maintains the position Range violated the township zoning ordinance by failing to restore the impoundments after completing all nearby frack wells.

"We issued these violations because they were in an A-1 area in the first place," said Smith. "It may be best for a certain group surrounding the Carter impoundment as it is today, and it may be good for the people in the fresh water compoundments that may be going away within five years, but how is it fair for us to take it away from a zoned area that we feel isn't allowable for that and putting it in the exact same zoning area in the other end of town?" asked Smith.

Supervisors Larry Grimm and Arden McCartney said they don't believe an area zoned A-1 is the best place for the impoundment, but believe it's the best solution.

"The Carter impoundment is my impetus for doing this," said Grimm. "These people have been living with that toxic waste dump down there along time. That's why I pushed for this settlement that we have."

Smith contends that the township is simply transferring the problem from one area to another.

"I don't feel we have all the information we need tonight to make a decision," said Smith.

About 40 residents attended the meeting, and several voiced their belief that the impoundments are more suited for an industrial zoned district, not an A-1 district.

Supervisors also postponed a zoning hearing board meeting related to the impoundments that was scheduled for tonight.

Range attorney Shawn Gallagher agreed to delaying the zoning hearing meeting, but said the company has provided the township with all of the information it would need to make a decision on the proposal.

“This is the solution we put forth, and we think it’s a very good one,” said Gallagher.

Copyright 2012 Observer Publishing Company. All rights reserved.

From: [Dyken, Jill J. \(ATSDR/DCHI/EB\)](#)
To: [Werner, Lora S. \(CDC epa.gov\)](#)
Subject: RE: FYI - article mentions Carter impoundment
Date: Thursday, November 07, 2013 3:45:00 PM

Thanks Lora! Bob sent it to me a couple days ago. ☺

Jill Dyken
ATSDR Division of Community Health Investigations
Eastern Branch (Serving Communities in EPA Regions 1, 2, and 3 – Maine to Virginia)
770-488-0768 office direct

From: Werner, Lora S. (CDC epa.gov)
Sent: Thursday, November 07, 2013 3:34 PM
To: Dyken, Jill J. (ATSDR/DCHI/EB)
Subject: Fw: FYI - article mentions Carter impoundment

Not sure if Bob shared this with you? It is from back on 10/7 so during the furlough period....

From: Helverson, Robert
Sent: Wednesday, November 06, 2013 12:21:34 PM
To: Elsner, Kurt; Werner, Lora; Markiewicz, Karl
Subject: Re: FYI - article mentions Carter impoundment

Kurt,
Thank you for this news article. I have heard about the earlier Range proposal for converting a freshwater and closing Carter, but hadn't heard about this new proposal or the Board's opinions. An interesting and difficult situation for this township.

Bob

From: Elsner, Kurt
Sent: Wednesday, November 06, 2013 9:22:43 AM
To: Helverson, Robert
Subject: FW: FYI - article mentions Carter impoundment

Hi Bob:

Were you aware of this? I'm not sure what to make of it. Do you know if there have been additional hearing held?

Thanks,

Kurt

From: McFadden, Angela

Sent: Friday, October 18, 2013 11:54 AM
To: Elsner, Kurt
Subject: FYI - article mentions Carter impoundment

Copyright 2012 Observer Publishing Company. All rights reserved.

by [Karen Mansfield](#)
Staff Writer
kmansfield@observer-reporter.com
Washington Co.

Monday, October 7, 2013

Pleasant Township supervisors voted unanimously Monday to table a proposed agreement with Range Resources regarding four water impoundments operated by the natural gas drilling company.

The proposal included some modifications to a resolution Range proposed Sept. 28, which supervisors unanimously rejected, but still calls for closing the Carter impoundment and converting the Stewart impoundment into an above-ground holding facility.

Range's new proposal calls for the Cowden and Clingerman impoundments to be decommissioned and reclaimed within three and five years, respectively, and limits the use of the Cowden impoundment to the development of wells within the township and adjoining municipalities.

The Carter impoundment is a facility that recycles water used in the hydraulic fracturing process, while the Cowden and Clingerman impoundments are used for fresh water storage.

Supervisor Bryan Smith said he is opposed to moving a nonfresh water impoundment from one area zoned A-1 to another A-1 area.

The township maintains the position Range violated the township zoning ordinance by failing to restore the impoundments after completing all nearby frack wells.

"We issued these violations because they were in an A-1 area in the first place," said Smith. "It may be best for a certain group surrounding the Carter impoundment as it is today, and it may be good for the people in the fresh water compoundments that may be going away within five years, but how is it fair for us to take it away from a zoned area that we feel isn't allowable for that and putting it in the exact same zoning area in the other end of town?" asked Smith.

Supervisors Larry Grimm and Arden McCartney said they don't believe an area zoned A-1 is the best place for the impoundment, but believe it's the best solution.

"The Carter impoundment is my impetus for doing this," said Grimm. "These people have been living with that toxic waste dump down there along time. That's why I pushed for this settlement that we have."

Smith contends that the township is simply transferring the problem from one area to another.

"I don't feel we have all the information we need tonight to make a decision," said Smith.

About 40 residents attended the meeting, and several voiced their belief that the impoundments are more suited for an industrial zoned district, not an A-1 district.

Supervisors also postponed a zoning hearing board meeting related to the impoundments that was scheduled for tonight.

Range attorney Shawn Gallagher agreed to delaying the zoning hearing meeting, but said the company has provided the township with all of the information it would need to make a decision on the proposal.

“This is the solution we put forth, and we think it’s a very good one,” said Gallagher.

Copyright 2012 Observer Publishing Company. All rights reserved.

From: [Werner, Lora S. \(CDC epa.gov\)](#)
To: [Dyken, Jill J. \(ATSDR/DCHI/EB\)](#)
Subject: Re: FYI - article mentions Carter impoundment
Date: Thursday, November 07, 2013 3:53:59 PM

Excellent.

Still no word from PADOH; will meet with them face to face on Tues, hopefully will get ok for them to review then!! (Sooo goofy that this is necessary.)

From: Dyken, Jill J. (ATSDR/DCHI/EB) <azd9@cdc.gov>
Sent: Thursday, November 07, 2013 3:45:52 PM
To: Werner, Lora
Subject: RE: FYI - article mentions Carter impoundment

Thanks Lora! Bob sent it to me a couple days ago. ☺

Jill Dyken
ATSDR Division of Community Health Investigations
Eastern Branch (Serving Communities in EPA Regions 1, 2, and 3 – Maine to Virginia)
770-488-0768 office direct

From: Werner, Lora S. (CDC epa.gov)
Sent: Thursday, November 07, 2013 3:34 PM
To: Dyken, Jill J. (ATSDR/DCHI/EB)
Subject: Fw: FYI - article mentions Carter impoundment

Not sure if Bob shared this with you? It is from back on 10/7 so during the furlough period....

From: Helverson, Robert
Sent: Wednesday, November 06, 2013 12:21:34 PM
To: Elsner, Kurt; Werner, Lora; Markiewicz, Karl
Subject: Re: FYI - article mentions Carter impoundment

Kurt,
Thank you for this news article. I have heard about the earlier Range proposal for converting a freshwater and closing Carter, but hadn't heard about this new proposal or the Board's opinions. An interesting and difficult situation for this township.

Bob

From: Elsner, Kurt
Sent: Wednesday, November 06, 2013 9:22:43 AM
To: Helverson, Robert
Subject: FW: FYI - article mentions Carter impoundment

Hi Bob:

Were you aware of this? I'm not sure what to make of it. Do you know if there have been additional hearing held?

Thanks,

Kurt

From: McFadden, Angela
Sent: Friday, October 18, 2013 11:54 AM
To: Elsner, Kurt
Subject: FYI - article mentions Carter impoundment

Copyright 2012 Observer Publishing Company. All rights reserved.

by [Karen Mansfield](#)
Staff Writer
kmansfield@observer-reporter.com

Washington Co.

Monday, October 7, 2013

Pleasant Township supervisors voted unanimously Monday to table a proposed agreement with Range Resources regarding four water impoundments operated by the natural gas drilling company.

The proposal included some modifications to a resolution Range proposed Sept. 28, which supervisors unanimously rejected, but still calls for closing the Carter impoundment and converting the Stewart impoundment into an above-ground holding facility.

Range's new proposal calls for the Cowden and Clingerman impoundments to be decommissioned and reclaimed within three and five years, respectively, and limits the use of the Cowden impoundment to the development of wells within the township and adjoining municipalities.

The Carter impoundment is a facility that recycles water used in the hydraulic fracturing process, while the Cowden and Clingerman impoundments are used for fresh water storage.

Supervisor Bryan Smith said he is opposed to moving a nonfresh water impoundment from one area zoned A-1 to another A-1 area.

The township maintains the position Range violated the township zoning ordinance by failing to restore the impoundments after completing all nearby frack wells.

"We issued these violations because they were in an A-1 area in the first place," said Smith. "It may be best for a certain group surrounding the Carter impoundment as it is today, and it may be good for the people in the fresh water compoundments that may be going away within five years, but how is it fair for us to take it away from a zoned area that we feel isn't allowable for that and putting it in the exact same zoning area in the other end of town?" asked Smith.

Supervisors Larry Grimm and Arden McCartney said they don't believe an area zoned A-1 is the best place for the impoundment, but believe it's the best solution.

"The Carter impoundment is my impetus for doing this," said Grimm. "These people have been living with that toxic waste dump down there along time. That's why I pushed for this settlement that we have."

Smith contends that the township is simply transferring the problem from one area to another.

"I don't feel we have all the information we need tonight to make a decision," said Smith.

About 40 residents attended the meeting, and several voiced their belief that the impoundments are more suited for an industrial zoned district, not an A-1 district.

Supervisors also postponed a zoning hearing board meeting related to the impoundments that was scheduled for tonight.

Range attorney Shawn Gallagher agreed to delaying the zoning hearing meeting, but said the company has provided the township with all of the information it would need to make a decision on the proposal.

"This is the solution we put forth, and we think it's a very good one," said Gallagher.

Copyright 2012 Observer Publishing Company. All rights reserved.

From: [Dyken, Jill J. \(ATSDR/DCHI/EB\)](#)
To: [Werner, Lora S. \(CDC epa.gov\)](#)
Subject: RE: FYI - article mentions Carter impoundment
Date: Thursday, November 07, 2013 3:58:00 PM

No problem at all! Everything moves slowly nowadays, so no rush, right? ☺

From: Werner, Lora S. (CDC epa.gov)
Sent: Thursday, November 07, 2013 3:54 PM
To: Dyken, Jill J. (ATSDR/DCHI/EB)
Subject: Re: FYI - article mentions Carter impoundment

Excellent.

Still no word from PADOH; will meet with them face to face on Tues, hopefully will get ok for them to review then!! (Sooo goofy that this is necessary.)

From: Dyken, Jill J. (ATSDR/DCHI/EB) <azd9@cdc.gov>
Sent: Thursday, November 07, 2013 3:45:52 PM
To: Werner, Lora
Subject: RE: FYI - article mentions Carter impoundment

Thanks Lora! Bob sent it to me a couple days ago. ☺

Jill Dyken
ATSDR Division of Community Health Investigations
Eastern Branch (Serving Communities in EPA Regions 1, 2, and 3 – Maine to Virginia)
770-488-0768 office direct

From: Werner, Lora S. (CDC epa.gov)
Sent: Thursday, November 07, 2013 3:34 PM
To: Dyken, Jill J. (ATSDR/DCHI/EB)
Subject: Fw: FYI - article mentions Carter impoundment

Not sure if Bob shared this with you? It is from back on 10/7 so during the furlough period....

From: Helverson, Robert
Sent: Wednesday, November 06, 2013 12:21:34 PM
To: Elsner, Kurt; Werner, Lora; Markiewicz, Karl
Subject: Re: FYI - article mentions Carter impoundment

Kurt,

Thank you for this news article. I have heard about the earlier Range proposal for converting a freshwater and closing Carter, but hadn't heard about this new proposal or the Board's opinions. An interesting and difficult situation for this township.

Bob

From: Elsner, Kurt
Sent: Wednesday, November 06, 2013 9:22:43 AM
To: Helverson, Robert
Subject: FW: FYI - article mentions Carter impoundment

Hi Bob:

Were you aware of this? I'm not sure what to make of it. Do you know if there have been additional hearing held?

Thanks,

Kurt

From: McFadden, Angela
Sent: Friday, October 18, 2013 11:54 AM
To: Elsner, Kurt
Subject: FYI - article mentions Carter impoundment

Copyright 2012 Observer Publishing Company. All rights reserved.

by [Karen Mansfield](#)
Staff Writer
kmansfield@observer-reporter.com
Washington Co.

Monday, October 7, 2013

Pleasant Township supervisors voted unanimously Monday to table a proposed agreement with Range Resources regarding four water impoundments operated by the natural gas drilling company.

The proposal included some modifications to a resolution Range proposed Sept. 28, which supervisors unanimously rejected, but still calls for closing the Carter impoundment and converting the Stewart impoundment into an above-ground holding facility.

Range's new proposal calls for the Cowden and Clingerman impoundments to be decommissioned and reclaimed within three and five years, respectively, and limits the use of the Cowden impoundment to the development of wells within the township and adjoining municipalities.

The Carter impoundment is a facility that recycles water used in the hydraulic fracturing process, while the Cowden and Clingerman impoundments are used for fresh water storage.

Supervisor Bryan Smith said he is opposed to moving a nonfresh water impoundment from one area zoned A-1 to another A-1 area.

The township maintains the position Range violated the township zoning ordinance by failing to restore the impoundments after completing all nearby frack wells.

“We issued these violations because they were in an A-1 area in the first place,” said Smith.

“It may be best for a certain group surrounding the Carter impoundment as it is today, and it may be good for the people in the fresh water compoundments that may be going away within five years, but how is it fair for us to take it away from a zoned area that we feel isn’t allowable for that and putting it in the exact same zoning area in the other end of town?” asked Smith.

Supervisors Larry Grimm and Arden McCartney said they don’t believe an area zoned A-1 is the best place for the impoundment, but believe it’s the best solution.

“The Carter impoundment is my impetus for doing this,” said Grimm. “These people have been living with that toxic waste dump down there along time. That’s why I pushed for this settlement that we have.”

Smith contends that the township is simply transferring the problem from one area to another.

“I don’t feel we have all the information we need tonight to make a decision,” said Smith.

About 40 residents attended the meeting, and several voiced their belief that the impoundments are more suited for an industrial zoned district, not an A-1 district.

Supervisors also postponed a zoning hearing board meeting related to the impoundments that was scheduled for tonight.

Range attorney Shawn Gallagher agreed to delaying the zoning hearing meeting, but said the company has provided the township with all of the information it would need to make a decision on the proposal.

“This is the solution we put forth, and we think it’s a very good one,” said Gallagher.

From: [Werner, Lora S. \(CDC epa.gov\)](mailto:Werner.Lora.S@epa.gov)
To: [Dyken, Jill J. \(ATSDR/DCHI/EB\)](mailto:Dyken.Jill.J@atdsdr.dchi.eb)
Subject: Re: FYI - article mentions Carter impoundment
Date: Thursday, November 07, 2013 4:01:14 PM

I guess. Like living in molasses!!

From: Dyken, Jill J. (ATSDR/DCHI/EB) <azd9@cdc.gov>
Sent: Thursday, November 07, 2013 3:58:56 PM
To: Werner, Lora
Subject: RE: FYI - article mentions Carter impoundment

No problem at all! Everything moves slowly nowadays, so no rush, right? ☺

From: Werner, Lora S. (CDC epa.gov)
Sent: Thursday, November 07, 2013 3:54 PM
To: Dyken, Jill J. (ATSDR/DCHI/EB)
Subject: Re: FYI - article mentions Carter impoundment

Excellent.

Still no word from PADOH; will meet with them face to face on Tues, hopefully will get ok for them to review then!! (Sooo goofy that this is necessary.)

From: Dyken, Jill J. (ATSDR/DCHI/EB) <azd9@cdc.gov>
Sent: Thursday, November 07, 2013 3:45:52 PM
To: Werner, Lora
Subject: RE: FYI - article mentions Carter impoundment

Thanks Lora! Bob sent it to me a couple days ago. ☺

Jill Dyken
ATSDR Division of Community Health Investigations
Eastern Branch (Serving Communities in EPA Regions 1, 2, and 3 – Maine to Virginia)
770-488-0768 office direct

From: Werner, Lora S. (CDC epa.gov)
Sent: Thursday, November 07, 2013 3:34 PM
To: Dyken, Jill J. (ATSDR/DCHI/EB)
Subject: Fw: FYI - article mentions Carter impoundment

Not sure if Bob shared this with you? It is from back on 10/7 so during the furlough period....

From: Helverson, Robert
Sent: Wednesday, November 06, 2013 12:21:34 PM

To: Elsner, Kurt; Werner, Lora; Markiewicz, Karl
Subject: Re: FYI - article mentions Carter impoundment

Kurt,

Thank you for this news article. I have heard about the earlier Range proposal for converting a freshwater and closing Carter, but hadn't heard about this new proposal or the Board's opinions. An interesting and difficult situation for this township.

Bob

From: Elsner, Kurt
Sent: Wednesday, November 06, 2013 9:22:43 AM
To: Helverson, Robert
Subject: FW: FYI - article mentions Carter impoundment

Hi Bob:

Were you aware of this? I'm not sure what to make of it. Do you know if there have been additional hearing held?

Thanks,

Kurt

From: McFadden, Angela
Sent: Friday, October 18, 2013 11:54 AM
To: Elsner, Kurt
Subject: FYI - article mentions Carter impoundment

Copyright 2012 Observer Publishing Company. All rights reserved.

by [Karen Mansfield](#)
Staff Writer
kmansfield@observer-reporter.com

Washington Co.

Monday, October 7, 2013

Pleasant Township supervisors voted unanimously Monday to table a proposed agreement with Range Resources regarding four water impoundments operated by the natural gas drilling company.

The proposal included some modifications to a resolution Range proposed Sept. 28, which supervisors unanimously rejected, but still calls for closing the Carter impoundment and converting the Stewart impoundment into an above-ground holding facility.

Range's new proposal calls for the Cowden and Clingerman impoundments to be decommissioned and reclaimed within three and five years, respectively, and limits the use of the Cowden impoundment to the development of wells within the township and adjoining municipalities.

The Carter impoundment is a facility that recycles water used in the hydraulic fracturing process, while the Cowden and Clingerman impoundments are used for fresh water storage.

Supervisor Bryan Smith said he is opposed to moving a nonfresh water impoundment from one area zoned A-1 to another A-1 area.

The township maintains the position Range violated the township zoning ordinance by failing to restore the impoundments after completing all nearby frack wells.

“We issued these violations because they were in an A-1 area in the first place,” said Smith. “It may be best for a certain group surrounding the Carter impoundment as it is today, and it may be good for the people in the fresh water compoundments that may be going away within five years, but how is it fair for us to take it away from a zoned area that we feel isn’t allowable for that and putting it in the exact same zoning area in the other end of town?” asked Smith.

Supervisors Larry Grimm and Arden McCartney said they don’t believe an area zoned A-1 is the best place for the impoundment, but believe it’s the best solution.

“The Carter impoundment is my impetus for doing this,” said Grimm. “These people have been living with that toxic waste dump down there along time. That’s why I pushed for this settlement that we have.”

Smith contends that the township is simply transferring the problem from one area to another.

“I don’t feel we have all the information we need tonight to make a decision,” said Smith.

About 40 residents attended the meeting, and several voiced their belief that the impoundments are more suited for an industrial zoned district, not an A-1 district.

Supervisors also postponed a zoning hearing board meeting related to the impoundments that was scheduled for tonight.

Range attorney Shawn Gallagher agreed to delaying the zoning hearing meeting, but said the company has provided the township with all of the information it would need to make a decision on the proposal.

“This is the solution we put forth, and we think it’s a very good one,” said Gallagher.

From: [Helverson, Robert \(CDC epa.gov\)](#)
To: [Kline, James](#)
Cc: [Werner, Lora S. \(CDC epa.gov\)](#); [Dyken, Jill J. \(ATSDR/DCHI/EB\)](#)
Subject: RE: Carter Impoundment - request for your assistance as an independent reviewer for draft ATSDR Health Consultation report
Date: Wednesday, December 18, 2013 9:10:15 AM

Jim, Thank you for the document review. You sent 3 documents, the first was just the blank reviewer form; the 2nd was the original health consultation; the third had the 2 filled in blocks on the reviewer form. Were there any comments or electronic edits on the health consult itself?

Thanks again for your assistance and we will be sure to make that adjustment regarding the liner. Thank you for verifying this important fact.

Regarding waste left onsite, is it just the liner or can they leave solids or stained soils in the pit? I have understood that the closeout of oil/gas sites (drill pads) allows for wastes (not necessarily hazardous waste) to remain when backfilling as long as the site is returned to original grade. Is this wrong?

Thanks again.

Robert H. Helverson
Region 3 Representative
Division of Community Health Investigations (DCHI)
Agency for Toxic Substances and Disease Registry (ATSDR)
Centers for Disease Control and Prevention (CDC)
1650 Arch Street (3HS00)
Philadelphia, PA 19103
(215) 814-3139 (Office)
(215) 814-3003 (Fax)
email: gfu6@cdc.gov

From: Kline, James
Sent: Wednesday, December 18, 2013 8:35 AM
To: Helverson, Robert
Cc: Werner, Lora; Dressel, Paul; Beers, Samantha; Jimenez, Jose
Subject: FW: Carter Impoundment - request for your assistance as an independent reviewer for draft ATSDR Health Consultation report

Bob,

As I mentioned in a previous e-mail, I needed to speak with a few DEP staff members in order to complete my review. Dana Drake is the Engineering Manager for the Office of Oil and Gas Management -Southwest Regional Office. If you need to speak with Dana, she can be reached at (412)442-4000.

If you have any questions about my comments, please let me know. If there is anything else that I could be of future assistance, please do not hesitate to ask.

Jim

Jim Kline

US EPA Region 3 - Wheeling, WV
Office of Enforcement, Compliance and Environmental Justice
304-234-0263
kline.james@epa.gov

From: Helverson, Robert
Sent: Friday, November 15, 2013 9:26 AM
To: Kline, James; Werner, Lora
Subject: RE: Carter Impoundment - request for your assistance as an independent reviewer for draft ATSDR Health Consultation report

Jim,

I apologize for not sending this sooner. I thought I sent it and then Lora and I discussed the status of your review. This left me trying to remember sending it, and I don't remember!

It is attached for your review along with the independent reviewer form.

Thank you again for your help with this site.

Robert H. Helverson
Region 3 Representative
Division of Community Health Investigations (DCHI)
Agency for Toxic Substances and Disease Registry (ATSDR)
Centers for Disease Control and Prevention (CDC)
1650 Arch Street (3HS00)
Philadelphia, PA 19103
(215) 814-3139 (Office)
(215) 814-3003 (Fax)
email: gfu6@cdc.gov

From: Kline, James
Sent: Wednesday, October 30, 2013 9:54 AM
To: Werner, Lora
Cc: Helverson, Robert; Markiewicz, Karl; Beers, Samantha; Dressel, Paul
Subject: RE: Carter Impoundment - request for your assistance as an independent reviewer for draft ATSDR Health Consultation report

Lora,

Thank you for the e-mail. I forwarded on your request. We would be glad to help. Please send me a copy of your draft report for review.

Have a great day!

Jim

Jim Kline
US EPA Region 3 - Wheeling, WV
Office of Enforcement, Compliance and Environmental Justice
304-234-0263
kline.james@epa.gov

From: Werner, Lora
Sent: Tuesday, October 29, 2013 1:42 PM
To: Kline, James
Cc: Helverson, Robert; Markiewicz, Karl
Subject: Carter Impoundment - request for your assistance as an independent reviewer for draft ATSDR Health Consultation report

Hi, Jim

As we discussed, we would really appreciate it if you could serve as an independent review for ATSDR's draft health consultation report on the Carter Impoundment air and water data.

We will email you a draft of our report, and then we ask that you fill out the attached one page form indicating whether you recommended approval with or without changes, or do not recommend approval unless changes are made, or do not recommend approval.

We think you would be an excellent reviewer based on your scientific background, and your familiarity with the site and the natural gas industry. Our second reviewer will be from PADOH to provide a public health perspective. The document will then proceed for further review by the normal management chain at ATSDR HQ.

Let us know if this is okay with your management!

Best Lora

Lora Siegmann Werner, MPH
Regional Director, Region 3
Division of Community Health Investigations
Agency for Toxic Substances & Disease Registry (ATSDR)/Centers for Disease Control & Prevention
c/o EPA Region 3
1650 Arch Street
Mailstop 3HS00
Philadelphia, PA 19103

Desk phone: 215-814-3141

Cell phone: 215-588-9778

Fax: 215-814-3003

Emails (only need to use one): lkw9@cdc.gov and werner.lora@epa.gov

From: [Helverson, Robert \(CDC epa.gov\)](#)
To: [Dyken, Jill J. \(ATSDR/DCHI/EB\)](#)
Subject: FW: Carter Impoundment - request for your assistance as an independent reviewer for draft ATSDR Health Consultation report
Date: Wednesday, December 18, 2013 9:11:34 AM
Attachments: [Independent Reviewer Comments Form.docx](#)
[CarterImpoundment-HC-McDonaldPA_IndRevDraft.docx](#)
[Kline-Independent Reviewer Comments Form.docx](#)

Hi Jill,

This will probably arrive after my cc'ed response to Jim. He only has comments in the reviewer form, and I don't see any electronic edits in the document he returned to us. I am waiting for his response.

Robert H. Helverson
Region 3 Representative
Division of Community Health Investigations (DCHI)
Agency for Toxic Substances and Disease Registry (ATSDR)
Centers for Disease Control and Prevention (CDC)
1650 Arch Street (3HS00)
Philadelphia, PA 19103
(215) 814-3139 (Office)
(215) 814-3003 (Fax)
email: gfu6@cdc.gov

From: Kline, James
Sent: Wednesday, December 18, 2013 8:35 AM
To: Helverson, Robert
Cc: Werner, Lora; Dressel, Paul; Beers, Samantha; Jimenez, Jose
Subject: FW: Carter Impoundment - request for your assistance as an independent reviewer for draft ATSDR Health Consultation report

Bob,

As I mentioned in a previous e-mail, I needed to speak with a few DEP staff members in order to complete my review. Dana Drake is the Engineering Manager for the Office of Oil and Gas Management -Southwest Regional Office. If you need to speak with Dana, she can be reached at (412)442-4000.

If you have any questions about my comments, please let me know. If there is anything else that I could be of future assistance, please do not hesitate to ask.

Jim

Jim Kline
US EPA Region 3 - Wheeling, WV
Office of Enforcement, Compliance and Environmental Justice
304-234-0263
kline.james@epa.gov

From: Helverson, Robert
Sent: Friday, November 15, 2013 9:26 AM
To: Kline, James; Werner, Lora
Subject: RE: Carter Impoundment - request for your assistance as an independent reviewer for draft

ATSDR Health Consultation report

Jim,

I apologize for not sending this sooner. I thought I sent it and then Lora and I discussed the status of your review. This left me trying to remember sending it, and I don't remember!

It is attached for your review along with the independent reviewer form.

Thank you again for your help with this site.

Robert H. Helverson

Region 3 Representative

Division of Community Health Investigations (DCHI)

Agency for Toxic Substances and Disease Registry (ATSDR)

Centers for Disease Control and Prevention (CDC)

1650 Arch Street (3HS00)

Philadelphia, PA 19103

(215) 814-3139 (Office)

(215) 814-3003 (Fax)

email: gfu6@cdc.gov

From: Kline, James

Sent: Wednesday, October 30, 2013 9:54 AM

To: Werner, Lora

Cc: Helverson, Robert; Markiewicz, Karl; Beers, Samantha; Dressel, Paul

Subject: RE: Carter Impoundment - request for your assistance as an independent reviewer for draft ATSDR Health Consultation report

Lora,

Thank you for the e-mail. I forwarded on your request. We would be glad to help. Please send me a copy of your draft report for review.

Have a great day!

Jim

Jim Kline

US EPA Region 3 - Wheeling, WV

Office of Enforcement, Compliance and Environmental Justice

304-234-0263

kline.james@epa.gov

From: Werner, Lora

Sent: Tuesday, October 29, 2013 1:42 PM

To: Kline, James

Cc: Helverson, Robert; Markiewicz, Karl

Subject: Carter Impoundment - request for your assistance as an independent reviewer for draft ATSDR Health Consultation report

Hi, Jim

As we discussed, we would really appreciate it if you could serve as an independent review for ATSDR's draft health consultation report on the Carter Impoundment air and water data.

We will email you a draft of our report, and then we ask that you fill out the attached one page form indicating whether you recommended approval with or without changes, or do not recommend approval unless changes are made, or do not recommend approval.

We think you would be an excellent reviewer based on your scientific background, and your familiarity with the site and the natural gas industry. Our second reviewer will be from PADOH to provide a public health perspective. The document will then proceed for further review by the normal management chain at ATSDR HQ.

Let us know if this is okay with your management!

Best Lora

Lora Siegmann Werner, MPH
Regional Director, Region 3
Division of Community Health Investigations
Agency for Toxic Substances & Disease Registry (ATSDR)/Centers for Disease Control & Prevention
c/o EPA Region 3
1650 Arch Street
Mailstop 3HS00
Philadelphia, PA 19103

Desk phone: 215-814-3141

Cell phone: 215-588-9778

Fax: 215-814-3003

Emails (only need to use one): lkw9@cdc.gov and werner.lora@epa.gov

From: [Kline, James](#)
To: [Helverson, Robert \(CDC epa.gov\)](#)
Cc: [Werner, Lora S. \(CDC epa.gov\)](#); [Dyken, Jill J. \(ATSDR/DCHI/EB\)](#)
Subject: RE: Carter Impoundment - request for your assistance as an independent reviewer for draft ATSDR Health Consultation report
Date: Wednesday, December 18, 2013 9:38:07 AM

Bob,

An operator can under certain conditions encapsulate the solid fraction of waste from a drill pit. This option is not allowed for permitted centralized wastewater impoundments. The Carter impoundment is not a drill pit. For permitted centralized wastewater impoundments during site restoration, the liquid fraction must be pumped off used, recycled or taken to disposal. The solid fraction of wastes and the liners must be removed and taken to an approved disposal facility.

The third document was my reviewer comments.

Jim

From: Helverson, Robert
Sent: Wednesday, December 18, 2013 9:10 AM
To: Kline, James
Cc: Werner, Lora; azd9@cdc.gov
Subject: RE: Carter Impoundment - request for your assistance as an independent reviewer for draft ATSDR Health Consultation report

Jim, Thank you for the document review. You sent 3 documents, the first was just the blank reviewer form; the 2nd was the original health consultation; the third had the 2 filled in blocks on the reviewer form. Were there any comments or electronic edits on the health consult itself?

Thanks again for your assistance and we will be sure to make that adjustment regarding the liner. Thank you for verifying this important fact.

Regarding waste left onsite, is it just the liner or can they leave solids or stained soils in the pit? I have understood that the closeout of oil/gas sites (drill pads) allows for wastes (not necessarily hazardous waste) to remain when backfilling as long as the site is returned to original grade. Is this wrong?

Thanks again.

Robert H. Helverson
Region 3 Representative
Division of Community Health Investigations (DCHI)
Agency for Toxic Substances and Disease Registry (ATSDR)
Centers for Disease Control and Prevention (CDC)
1650 Arch Street (3HS00)
Philadelphia, PA 19103
(215) 814-3139 (Office)
(215) 814-3003 (Fax)
email: gfu6@cdc.gov

From: Kline, James
Sent: Wednesday, December 18, 2013 8:35 AM
To: Helverson, Robert
Cc: Werner, Lora; Dressel, Paul; Beers, Samantha; Jimenez, Jose
Subject: FW: Carter Impoundment - request for your assistance as an independent reviewer for draft ATSDR Health Consultation report

Bob,

As I mentioned in a previous e-mail, I needed to speak with a few DEP staff members in order to complete my review. Dana Drake is the Engineering Manager for the Office of Oil and Gas Management -Southwest Regional Office. If you need to speak with Dana, she can be reached at (412)442-4000.

If you have any questions about my comments, please let me know. If there is anything else that I could be of future assistance, please do not hesitate to ask.

Jim

Jim Kline
US EPA Region 3 - Wheeling, WV
Office of Enforcement, Compliance and Environmental Justice
304-234-0263
kline.james@epa.gov

From: Helverson, Robert
Sent: Friday, November 15, 2013 9:26 AM
To: Kline, James; Werner, Lora
Subject: RE: Carter Impoundment - request for your assistance as an independent reviewer for draft ATSDR Health Consultation report

Jim,

I apologize for not sending this sooner. I thought I sent it and then Lora and I discussed the status of your review. This left me trying to remember sending it, and I don't remember!

It is attached for your review along with the independent reviewer form.

Thank you again for your help with this site.

Robert H. Helverson
Region 3 Representative
Division of Community Health Investigations (DCHI)
Agency for Toxic Substances and Disease Registry (ATSDR)
Centers for Disease Control and Prevention (CDC)
1650 Arch Street (3HS00)
Philadelphia, PA 19103
(215) 814-3139 (Office)
(215) 814-3003 (Fax)
email: gfu6@cdc.gov

From: Kline, James
Sent: Wednesday, October 30, 2013 9:54 AM

To: Werner, Lora
Cc: Helverson, Robert; Markiewicz, Karl; Beers, Samantha; Dressel, Paul
Subject: RE: Carter Impoundment - request for your assistance as an independent reviewer for draft ATSDR Health Consultation report

Lora,

Thank you for the e-mail. I forwarded on your request. We would be glad to help. Please send me a copy of your draft report for review.

Have a great day!

Jim

Jim Kline
US EPA Region 3 - Wheeling, WV
Office of Enforcement, Compliance and Environmental Justice
304-234-0263
kline.james@epa.gov

From: Werner, Lora
Sent: Tuesday, October 29, 2013 1:42 PM
To: Kline, James
Cc: Helverson, Robert; Markiewicz, Karl
Subject: Carter Impoundment - request for your assistance as an independent reviewer for draft ATSDR Health Consultation report

Hi, Jim

As we discussed, we would really appreciate it if you could serve as an independent review for ATSDR's draft health consultation report on the Carter Impoundment air and water data.

We will email you a draft of our report, and then we ask that you fill out the attached one page form indicating whether you recommended approval with or without changes, or do not recommend approval unless changes are made, or do not recommend approval.

We think you would be an excellent reviewer based on your scientific background, and your familiarity with the site and the natural gas industry. Our second reviewer will be from PADOH to provide a public health perspective. The document will then proceed for further review by the normal management chain at ATSDR HQ.

Let us know if this is okay with your management!

Best Lora

Lora Siegmann Werner, MPH
Regional Director, Region 3
Division of Community Health Investigations
Agency for Toxic Substances & Disease Registry (ATSDR)/Centers for Disease Control & Prevention
c/o EPA Region 3
1650 Arch Street

Mailstop 3HS00
Philadelphia, PA 19103

Desk phone: 215-814-3141

Cell phone: 215-588-9778

Fax: 215-814-3003

Emails (only need to use one): lkw9@cdc.gov and werner.lora@epa.gov

From: [Helverson, Robert \(CDC epa.gov\)](#)
To: [Kline, James](#)
Cc: [Werner, Lora S. \(CDC epa.gov\)](#); [Dyken, Jill J. \(ATSDR/DCHI/EB\)](#)
Subject: RE: Carter Impoundment - request for your assistance as an independent reviewer for draft ATSDR Health Consultation report
Date: Wednesday, December 18, 2013 9:57:48 AM

Thanks again Jim.

Robert H. Helverson
Region 3 Representative
Division of Community Health Investigations (DCHI)
Agency for Toxic Substances and Disease Registry (ATSDR)
Centers for Disease Control and Prevention (CDC)
1650 Arch Street (3HS00)
Philadelphia, PA 19103
(215) 814-3139 (Office)
(215) 814-3003 (Fax)
email: gfu6@cdc.gov

From: Kline, James
Sent: Wednesday, December 18, 2013 9:38 AM
To: Helverson, Robert
Cc: Werner, Lora; azd9@cdc.gov
Subject: RE: Carter Impoundment - request for your assistance as an independent reviewer for draft ATSDR Health Consultation report

Bob,

An operator can under certain conditions encapsulate the solid fraction of waste from a drill pit. This option is not allowed for permitted centralized wastewater impoundments. The Carter impoundment is not a drill pit. For permitted centralized wastewater impoundments during site restoration, the liquid fraction must be pumped off used, recycled or taken to disposal. The solid fraction of wastes and the liners must be removed and taken to an approved disposal facility.

The third document was my reviewer comments.

Jim

From: Helverson, Robert
Sent: Wednesday, December 18, 2013 9:10 AM
To: Kline, James
Cc: Werner, Lora; azd9@cdc.gov
Subject: RE: Carter Impoundment - request for your assistance as an independent reviewer for draft ATSDR Health Consultation report

Jim, Thank you for the document review. You sent 3 documents, the first was just the blank reviewer form; the 2nd was the original health consultation; the third had the 2 filled in blocks on the reviewer form. Were there any comments or electronic edits on the health consult itself?

Thanks again for your assistance and we will be sure to make that adjustment regarding the liner. Thank you for verifying this important fact.

Regarding waste left onsite, is it just the liner or can they leave solids or stained soils in the pit? I have understood that the closeout of oil/gas sites (drill pads) allows for wastes (not necessarily hazardous waste) to remain when backfilling as long as the site is returned to original grade. Is this wrong?

Thanks again.

Robert H. Helverson
Region 3 Representative
Division of Community Health Investigations (DCHI)
Agency for Toxic Substances and Disease Registry (ATSDR)
Centers for Disease Control and Prevention (CDC)
1650 Arch Street (3HS00)
Philadelphia, PA 19103
(215) 814-3139 (Office)
(215) 814-3003 (Fax)
email: gfu6@cdc.gov

From: Kline, James
Sent: Wednesday, December 18, 2013 8:35 AM
To: Helverson, Robert
Cc: Werner, Lora; Dressel, Paul; Beers, Samantha; Jimenez, Jose
Subject: FW: Carter Impoundment - request for your assistance as an independent reviewer for draft ATSDR Health Consultation report

Bob,

As I mentioned in a previous e-mail, I needed to speak with a few DEP staff members in order to complete my review. Dana Drake is the Engineering Manager for the Office of Oil and Gas Management -Southwest Regional Office. If you need to speak with Dana, she can be reached at (412)442-4000.

If you have any questions about my comments, please let me know. If there is anything else that I could be of future assistance, please do not hesitate to ask.

Jim

Jim Kline
US EPA Region 3 - Wheeling, WV
Office of Enforcement, Compliance and Environmental Justice
304-234-0263
kline.james@epa.gov

From: Helverson, Robert
Sent: Friday, November 15, 2013 9:26 AM
To: Kline, James; Werner, Lora
Subject: RE: Carter Impoundment - request for your assistance as an independent reviewer for draft ATSDR Health Consultation report

Jim,

I apologize for not sending this sooner. I thought I sent it and then Lora and I discussed the status of

your review. This left me trying to remember sending it, and I don't remember!

It is attached for your review along with the independent reviewer form.

Thank you again for your help with this site.

Robert H. Helverson
Region 3 Representative
Division of Community Health Investigations (DCHI)
Agency for Toxic Substances and Disease Registry (ATSDR)
Centers for Disease Control and Prevention (CDC)
1650 Arch Street (3HS00)
Philadelphia, PA 19103
(215) 814-3139 (Office)
(215) 814-3003 (Fax)
email: gfu6@cdc.gov

From: Kline, James
Sent: Wednesday, October 30, 2013 9:54 AM
To: Werner, Lora
Cc: Helverson, Robert; Markiewicz, Karl; Beers, Samantha; Dressel, Paul
Subject: RE: Carter Impoundment - request for your assistance as an independent reviewer for draft ATSDR Health Consultation report

Lora,

Thank you for the e-mail. I forwarded on your request. We would be glad to help. Please send me a copy of your draft report for review.

Have a great day!

Jim

Jim Kline
US EPA Region 3 - Wheeling, WV
Office of Enforcement, Compliance and Environmental Justice
304-234-0263
kline.james@epa.gov

From: Werner, Lora
Sent: Tuesday, October 29, 2013 1:42 PM
To: Kline, James
Cc: Helverson, Robert; Markiewicz, Karl
Subject: Carter Impoundment - request for your assistance as an independent reviewer for draft ATSDR Health Consultation report

Hi, Jim

As we discussed, we would really appreciate it if you could serve as an independent review for ATSDR's draft health consultation report on the Carter Impoundment air and water data.

We will email you a draft of our report, and then we ask that you fill out the attached one page form indicating whether you recommended approval with or without changes, or do not recommend

approval unless changes are made, or do not recommend approval.

We think you would be an excellent reviewer based on your scientific background, and your familiarity with the site and the natural gas industry. Our second reviewer will be from PADOH to provide a public health perspective. The document will then proceed for further review by the normal management chain at ATSDR HQ.

Let us know if this is okay with your management!

Best Lora

Lora Siegmann Werner, MPH
Regional Director, Region 3
Division of Community Health Investigations
Agency for Toxic Substances & Disease Registry (ATSDR)/Centers for Disease Control & Prevention
c/o EPA Region 3
1650 Arch Street
Mailstop 3HS00
Philadelphia, PA 19103

Desk phone: 215-814-3141

Cell phone: 215-588-9778

Fax: 215-814-3003

Emails (only need to use one): lkw9@cdc.gov and werner.lora@epa.gov